IN THE CLAIMS

Please cancel claims 1-8, 12-21, 23, and 25 without prejudice.

Please add claims 29-35.

Please amend claims 9-11, 22, 24, and 26 as follows:

1-8. (Canceled)

9. (Currently Amended) A power transmission~~power distribution connector for a processor~~ system~~, the connector~~ comprising:

a printed circuit board including a central processing unit;

a power supply spaced apart from and located remotely from the central processing unit;

a flexible circuitry connector~~member~~ extending between the power supply and the 64-bit central processing unit, the flexible circuitry connector comprising a first end ~~configured for~~ electrical connected~~ing~~ to the ~~a~~ central processing unit ~~processor~~ and a second end ~~configured for~~ electrical connected~~ing~~ to the~~a~~ power supply, wherein the flexible circuitry connector has~~and having~~ a length to maintain a distance between the first end and the second end of the flexible circuitry connector to maintain remote location of the power supply relative to the 64-bit central processing unit, wherein the flexible circuitry connector is physically spaced apart from and electrically independent of the printed circuit board,

wherein the flexible circuitry connector ~~and~~ comprises~~ing~~ a plurality of stacked layers arranged generally parallel to each other, wherein each respective stacked layer includes~~ing~~:

a plurality of ground layers;

at least one power layer; and

at least one signal layer,

wherein the at least one power layer is interposed between at least two of the plurality of ground layers and the at least one signal layer is separated from the at least one power layer by at least one of the respective ground layers and extends generally parallel to the respective ground layers and the at least one power layer.

10. (Currently Amended) A power transmission connector comprising:

means for transmitting power directly from~~to~~ a power supply to~~and~~ a 64-bit central processing unit ~~processor~~ independent from a printed circuit board on which the 64-bit central processing unit is mounted, the means for transmitting power including means for distributing the power between a plurality of ground planes and a plurality of power planes arranged for minimizing ~~a~~ an inductance loop between the power supply and the 64-bit central processing unit ~~processor~~.

11. (Original) The connector of claim 10 and further comprising a printed circuit board wherein the 64-bit central processing unit is mounted on the printed circuit board, wherein the means for transmitting power comprises a flexible circuitry board comprising a first end electrically connected to the ~~processor~~64-bit central processing unit and a second end electrically connected to the power supply, the ~~and~~ flexible circuitry board configured with a length to maintain ~~separate~~ the power supply in a remote physical location relative to~~from~~ the central processing unit, ~~processor~~wherein the flexible circuitry board is physically independent of, and spaced apart from, the printed circuit board, and wherein ~~and~~the means for distributing the power comprises ~~arranging~~ the ground planes and the power planes arranged generally parallel to each other so that at least one power plane is sandwiched between a pair of ground planes and at least one signal plane extends within the flexible circuitry board generally parallel to the respective ground planes and power planes.

12-21. (Canceled)

22. (Currently Amended) The power ~~distribution connector of claim 9 and further comprising a power~~ transmission system of claim 9 ~~including the power distribution connector, the system~~ wherein the central processing unit comprises a 64 bit central processing unit and wherein the printed circuit board comprises a first printed circuit board and the power transmission system further comprises~~ing:~~ ~~a first printed circuit board;~~ a second printed circuit board mounted on the first printed circuit board, ~~;~~wherein the power supply mounted is on the first printed circuit board ~~and electrically connected to the second~~

~~end of the connector~~ and ~~wherein~~ the central processing unit ~~processor~~ is mounted on the second printed circuit board ~~and electrically connected to the first end of the connector~~.

23. (Canceled)

24. (Currently Amended) The power ~~distribution connector~~transmission system of claim 22 wherein the processor is electrically connected to the first end of the flexible circuitry connector via a capacitive coupler mounted on the second printed circuit board.

25. (Canceled)

26. (Currently Amended) The power transmission system~~distribution connector~~ of claim 9 wherein the flexible circuitry connector comprises a resilient member configured to maintain its shape.

27. (Withdrawn) The power distribution connector of claim 9 and further comprising a power transmission system including the power distribution connector, the system comprising:

a chassis; and

a circuit card that is removably insertable into the chassis,

wherein the power supply is mounted on the chassis and the processor is mounted on the circuit card with the power supply electrically connected to the second end of the connector and the processor electrically connected to the first end of the connector.

28. (Withdrawn) The system of claim 27 and further comprising:

a bus interface configured to electrically and mechanically connect the circuit card and the chassis wherein the second end of the connector is connected to the power supply via the bus interface.

29. (New) The power transmission system of claim 9 wherein the power supply is mounted on the printed circuit board.

30. (New) The power transmission system of claim 9 wherein the at least one signal layer is disposed between two of the respective ground layers.

31. (New) The power transmission system of claim 9 wherein the at least one signal layer is disposed an outside layer adjacent only one of the respective ground layers.

32. (New) The power transmission system of claim 9, wherein the power transmission system comprises a computer system.

33. (New) A computer system comprising:

a printed circuit board including a central processing unit;

a power supply spaced apart from and located remotely from the central processing unit;

a flexible circuitry connector comprising a first end electrical connected to the central processing unit and a second end electrical connected to the power supply, ~~and having~~ wherein the flexible circuitry connector has a length ~~to maintain~~ that defines a distance between the first end and the second end of the flexible circuitry connector to maintain remote location of the power supply relative to the central processing unit, wherein the flexible circuitry connector is physically spaced apart from and electrically independent of the printed circuit board, and

wherein the flexible circuitry connector comprises a plurality of stacked layers arranged generally parallel to each other, wherein each respective stacked layer includes~~ing~~:

a plurality of ground layers;

at least one power layer; and

at least one signal layer,

wherein the at least one power layer is interposed between at least two of the plurality of ground layers and the at least one signal layer is separated from the at least one power layer by at least one of the respective ground layers and extends generally parallel to the respective ground layers and the at least one power layer.

34. (New) The computer system of claim 33 wherein the power supply is mounted on the printed circuit board.

34. (New) The computer system of claim 33 wherein the printed circuit board comprises a first printed circuit board and the computer system further comprises a second printed circuit board mounted on the first printed circuit board, wherein the power supply mounted is on the first printed circuit board and the central processing unit is mounted on the second printed circuit board.

35. (New) The computer system of claim 34 wherein the central processing unit is a 64-bit central processing unit.